

C^2

C³

TABLE 1. Sequences and Corresponding SEQ ID Numbers

C4**TABLE 5.**

2

NOV2 : 181 gatccacctctataagttgcaggttgagtatctcttatctgaaatgctagagaccagaag 240
 |||
 CHR11: 90725 gatccacctctataagttgcaggttgagtatctcttatctgaaatgctagagaccagaag 90666

NOV2 : 241 tgtttcaggtttcagatatttagattttggaatatttgcataacacgagatatccagg 300
 |||
 CHR11: 90665 tgtttcaggtttcagatatttagattttggaatatttgcataacacgagatatccagg 90606

NOV2 : 301 gaagagacccaagtctaaacatgaaattcatttatgtttcatatacacctcatatatata 360
 |||
 CHR11: 90605 gaagagacccaagtctaaacatgaaattcatttatgtttcatatacacctcatatatata 90546

NOV2 : 361 tagcctgaaggtaattttatacagattttataatttgtccaaggaacaaagtttgactg 420
 |||
 CHR11: 90545 tagcctgaaggtaattttatacagattttataatttgtccaaggaacaaagtttgactg 90486

NOV2 : 421 tgttttgactatgactcgctcatgtgaagtcataatgtggaattttccacttggtggcatcac 480
 |||
 CHR11: 90485 tgttttgactatgactcgctcatgtgaagtcataatgtggaattttccacttggtggcatcac 90426

NOV2 : 481 acaggcactcaaaaagcttcagatttgggagcatattggatttcgcataattcagattagg 540
 |||
 CHR11: 90425 acaggcactcaaaaagcttcagatttgggagcatattggatttcgcataattcagattagg 90366

NOV2 : 541 gatgctcaaccataactcagtttaccagtnnnnnncataatgtttgcaattactcctcc 600
 |||
 CHR11: 90365 gatgctcaaccataactcagtttaccagtaaaaaaacataatgtttgcaattactcctcc 90306

NOV2 : 601 ttttaaatatataattattttttggtatgggggaaaagagtgagaactttatttcac 656 (nucleotides
 1-656 of SEQ ID NO: 3)
 |||
 CHR11: 90305 ttttaaatatataattattttttggtatgggggaaaagagtgagaactttatttcac 90250 (SEQ ID
 NO. 17)

C4
cont.

KR
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{ Please replace the paragraph beginning on page 10, line 1 with the following: }

~~NOV1: 601 ttttaaatatataattattttttggtatgggggaaaagagtgagaactttatttcac 656~~
 (nucleotides 1-656 of SEQ ID NO:1)

Please replace the paragraph beginning on page 13, line 1 with the following:

NOV3: 121 cgccactgcactccagcctgggacagagcgagactccgtctc 164 (nucleotides 1-164 of
 SEQ ID NO:5)

C5

Table 7

Please replace the paragraph beginning on page 13, line 17 with the following:

NOV3: 121 cgccactgcactccagcctgggacagagcgagactccgtctc 164 (nucleotides 1-164 of
 SEQ ID NO:5)

C6

Table 8

Please replace the paragraph beginning on page 13, line 50 with the following:

NOV3: 441 RRKAALVVPFETLRYRFSFPHSKVELLALLDAGTL 476 (amino acids 22-476 of
 SEQ ID NO:6)

C7

Please replace Table 10 beginning on page 14, line 1 with the following:

Table 10.

NOV3: 22 HLHLVTDVARNILETLFHTWMVPAIDPVSPYHADQLKPQVSWIPNKHYSGLYGLMKLVL 81
 * **+ **+* ** ** * ** * **+* * *+***+*+*****+*****
 KIAA : 234 HFHLIADSI AEQILATLFQTWMVPAVR-VDFYNADCLKSEVSWIPNKHYSGLYGLMKLVL 292

NOV3: 82 PNALPAELARVIVLDTDTFASDISELWALFAHFSDTQAIGLVENQSDWYLGNLWLNHRP 141
 *** * *****+***+***+***+* * * +*****+*****
 KIAA : 293 TKTLPANLERVIVLDTDTFATDIAELWAVFHKFKGQQLGLVENQSDWYLGNLWLNHRP 352

NOV3: 142 WPALGRGFNTGVILLRLDRLRQAGWEQMWRLTARRELLSLPATSLADQDIFNAVIKEHPG 201
 *****+***** **+***+ ***** **+ + +*****+***+
 KIAA : 353 WPALGRGYNTGVILLLLDKLRKMKWEQMWRLTAERELMGMSTSLADQDIFNAVIKQNP 412

NOV3: 202 LVQRLPCVWNVQLSDHTLAERCYSEASDLKVIHWNSPKKLRVKNKHVEFFRNFYLTFLY 261
 ** +*** *****+***+ + *****+*****+*****
 KIAA : 413 LVYQLPCFVWNVQLSDHTRSEQCYRDVSDLKVIHWNSPKKLRVKNKHVEFFRNLYLTFLY 472

NOV3: 262 DGNLLRRELFVCPSQPPPGXXXXXXXXXXXXXXXXXPCFEFRQQQLTVHRVHVTFL-XXXXX 320
 *****+***+ *+****++ *****+*
 KIA : 473 DGNLLRRELFVCPSEADVNSENLQKQLSELDEDDLCYEFRRERFTVHRTHLYFLHYEYEP 532

NOV3: 321 XXXXXDVTLVAQLSMDRLQMLEALCRHTPGPMSLALYLTDAEAQQFLHFVEASPVLAARQ 380
 *****+***+ **+*****+*****+ + * **+*
 KIAA : 533 AADSTDVTLVAQLSMDRLQMLEAICKHWEGPISLALYLSDAEAQQFLRYAQGSEVLMSRH 592

NOV3: 381 DVAYHVYVYREGPLYPVNQLRNVALAQALTPYVFLSDIDFLPAYSLYDYLRAIEQLGLGS 440
 +* **+***+* *****+*****+*****+* **+***+* **+*
 KIAA : 593 NVGYHIVYKEGQFYPVNLNRVAMKHISTPYMFLSDIDFLPMYGLYEYLRKSVIQLDLAN 652

NOV3: 441 RRKAALVVPFETLRYRFSFPHSKVELLALLDAGTLYTFRYGEWPRGHAPTDYARWREAQ 500
 +* **+*****+* ** ** **+***+* **+*****+* **+***+***+*
 KIAA : 653 TTK-AMIVPAFETLRYRFSFPHSKVELLALLDAGTLYTFRYHVTGKHAPTNFAKWRTAT 711

NOV3: 501 APYRVQWAANYEPYVVVRDCPRYDPRVFGFGWKNVAHIVELDAQEYELLVLPFAFTIHL 560
 ****+* **+*****+* ** ** *****+***+*****+***+*
 KIAA : 712 TPYRVEWEADFEYVVRDCPEYDRRFVFGFGWKNVAHIVELDVQEYEFIVLPNAYMIHM 771

NOV3: 561 PHAPSLDISRFRSSPTYRDCLQALKDEFHQDLRHHGAAALKYLP 606 (amino acids 22-
 606 of SEQ ID NO: 6)
 *****+***+***+* ** **+ **+***+***+*+*****+*
 KIAA : 772 PHAPSFDTKFRSNKQYRICLTKLKEEFQDMSRRYGFALKYLT 817 (SEQ ID NO.: 25)

Where * indicates identity and + indicates similarity.

Please replace the paragraph beginning on page 15, line 4 with the following:

NOV3 437 GLGSRRKAALVVPFETLRYRFSFPHSKVELLALLDAGTL 476 (amino acids 451-500 of SEQ ID NO: 6) ~~451-500~~ 288-476

Please replace the paragraph beginning on page 16, line 36 with the following:

NOV4: 133 gtagaccaagattgtgccactgcactccagcctgggcaacaaagtgagactct 185
 (nucleotides 13-185 of SEQ ID NO: 7)

Please replace the paragraph beginning on page 17, line 7 with the following:

C¹¹

A NOV5 sequence according to the invention includes the nucleic acid shown in Table 14. The disclosed nucleic acid encodes a polypeptide related to a neural membrane protein. The disclosed NOV5 nucleic acid are present in adrenal, mammary, prostate, testis, uterus, bone marrow, melanoma, pituitary, thyroid, spleen, placenta, bone marrow, mammary gland, fetal thymus - CRL7046, osteogenic sarcoma cell lines - HTB96, fetal lung, thalamus, fetal kidney, and Burkitt's lymphoma (Raji). Expressed sequence tag (EST) data suggest NOV5 sequences are expressed in aorta, blood, bone, brain, breast, central nervous system, colon, foreskin, germ cell, heart, kidney, larynx, lung, lymph, muscle, ovary, pancreas, parathyroid, placenta, pooled, prostate, stomach, testis, tonsil, uterus, whole embryo, blood, breast, cervix, colon, head and neck, lung, ovary, and stomach. The disclosed nucleic acid (SEQ ID NO:9) is 2,059 nucleotides in length and contains an open reading frame (ORF) that begins with an ATG initiation codon at nucleotides 63-65 and ends with a TGA stop codon at nucleotides 1,022-1,024, as is shown in Table 14. The nucleic acid sequence includes a Kozak consensus sequence. The representative ORF encodes a 320 amino acid polypeptide (SEQ ID NO: 10). The predicted MW of the NOV5 polypeptide is 35,204.3 Da. Putative untranslated regions upstream and downstream of the coding sequence are underlined in SEQ ID NO: 9.

Please replace the paragraph beginning on page 18, line 53 with the following:

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The disclosed NOV5 nucleic acid has a high degree of homology (100% identity) with a region of the gene encoding the uncharacterized human PP1201 protein (PP1201; Genbank Accession No.: NM022152.1), as is shown in Table 15. Also, the NOV5 nucleic acid has a high degree of homology (99% identity) with regions of the human BAC genomic clone RP11-378A13 from chromosome 2 (Genbank Accession No.: AC021016.4; CHR 2), as is shown in Table 16. Furthermore, the NOV5 nucleic acid has a high degree of homology (100% identity) with portions of a polynucleotide sequence from US Patent 5,843,716 (Seq2; Accession No.: AR062278), as is shown in Table 17. Still further, the polypeptide of SEQ ID NO: 38 has homology (70% similarity, 83% identity) with the rat neural membrane protein 35 (NMP 35; Accession No.: AAC 324631.1), as shown in Table 18.

Please replace the paragraph beginning on page 20, line 12 with the following:

C13 NOV5: 661 tggtatccatttcagtcaccatcttctgctttcagaccaaggtg 704 (nucleotides 1-704 of
SEQ ID NO: 9) ✓

Please replace the paragraph beginning on page 21, line 41 with the following:

C14 NOV5: 2013 cccattcttgaaagctgctggggcctccttgaggcttctggatc 2058 (nucleotides 1053-
2058 of SEQ ID NO: 9) ✓

Please replace the paragraph beginning on page 23, line 1 with the following:

C15 NOV5: 2031 ctggggcctccttgaggcttctggatc 2058 (nucleotides 1131-2058 of SEQ ID NO:
9) ✓

Please replace the paragraph beginning on page 24, line 33 with the following:

C16 NOV5: 2013 cccattcttgaaagctgctggggcctccttgaggcttctggatc 2058 (nucleotides 1053-2058 of
SEQ ID NO: 9) ✓

Please replace the paragraph beginning on page 27, line 54 with the following:

C17 NOV6: 793 aaaatatcc 801 (nucleotides 253-801 of SEQ ID NO: 11) ✓

Please replace the paragraph beginning on page 28, line 48 with the following:

C18 NOV6: 793 aaaatatcc 801 (nucleotides 253-801 of SEQ ID NO: 11) ✓

NS. Please replace the paragraph beginning on page 28, line 48 with the following:

C27 NOV6: 427 atccagacaatgctgt 442 (nucleotides 67-442 of SEQ ID NO: 11) ✓

Please replace the paragraph beginning on page 30, line 19 with the following:

C19 A NOV7 sequence according to the invention includes the nucleic acid and encoded polypeptide shown in Table 23. The encoded polypeptide is related to N-acetylglucosaminyltransferase III (GlcNAc-TIII). The tissue of origin of the NOV7 nucleic acid is pancreas. The disclosed nucleic acid (SEQ ID NO:13) is 2,357 nucleotides in length and contains an open reading frame (ORF) that begins with an ATG initiation codon at nucleotides 18-20 and ends with a TGA stop codon at nucleotides 2103-2105, as shown in Table 23. The representative ORF encodes a 695 amino acid polypeptide (SEQ ID NO: 14). Putative untranslated regions upstream and downstream of the coding sequence are underlined in SEQ

C19
cont.

Please replace the paragraph beginning on page 33, line 23 with the following:

C²⁰

Please replace Table 25 beginning on page 33 with the following:

 C^{21}

Where * indicates identity and + indicates similarity.

Please replace the paragraph beginning on page 34, line 40 with the following:

C²²